

Claims

1. A mobile medication history management apparatus, comprising:
  - an obtaining unit operable to obtain identification information relating to a drug that a user of the medication history management apparatus is planning to take;
  - a secure storage unit operable to store, in a secure storage area therein, medication history information of a drug that the user has taken previously;
  - 10 an information storage unit operable to store mutual effect information showing one or more mutual effects, each mutual effect being caused by taking of drugs in combination;
  - a judgment unit operable to refer to the stored mutual effect information to check whether any combinations exist therein of the drug shown by the obtained identification information and any of the previously taken drugs estimated to have a remaining physical effect in the user, in order to judge whether a mutual effect will occur due to taking the drug show by the obtained identification information and any of the previously taken drugs; and
  - 20 an output unit operable to output a judgment result.
2. The mobile medication history management apparatus of Claim 1, wherein
  - each of the drug that the user is planning to take and the one or more previously taken drugs is a one of a prescription drug and non-prescription drug.
3. The mobile medication history management apparatus of Claim 2,

further comprising:

a first download unit operable to download mutual effect information from an external server, and store the mutual effect information in the information storage unit.

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4. The mobile medication history management apparatus of Claim 3, further comprising:

10 a second download unit operable to download medication history information from a server that is one of a hospital server and a pharmacy server, and store the medication history information in the secure storage unit.

5. The mobile medication history management apparatus of Claim 4, wherein

15 when the second download unit downloads the medication history information, the second download unit and the server perform mutual authentication processing, writing of the downloaded medication history information to the secure storage unit being permitted only when authentication succeeds.

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6. The mobile medication history management apparatus of Claim 1, further comprising:

a timer operable to count time from when each of the one or more previously taken drugs is taken; and

25 an effect time storage unit operable to store a physical effect remain time of each of one or more drugs, each physical effect remain time showing a length of time that the physical effect of the drug remains in the user from when the drug is taken,

wherein, when making the judgment, if the counted time of a previously taken drug in combination with the planned drug in the medication history information is less than the physical effect remain time of the previously taken drug, the judgment unit selects drug identification information of the previously taken drug as a target of comparison, and if the counted time of a previously taken drug in combination with the planned drug exceeds the physical effect remain time of the previously taken drug, the judgment unit excludes the drug identification information of the previously taken drug from being a target of comparison.

7. The mobile medication history management apparatus of Claim 6, further comprising:

a completion reception unit operable to receive, from an external source, information showing that the user has taken the planned drug; and

a write unit operable to write the received information additionally in the drug identification information stored in the secure storage unit.

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8. The mobile medication history management apparatus of Claim 7, wherein

the completion reception unit and the timer of the judgment unit operate in synchronization such that the timer commences counting time upon receiving a completion signal.

9. The mobile medication history management apparatus of Claim 8, being a mobile telephone that is equipped with a secure memory card,

wherein the completion signal is transmitted to the memory card upon a specific key of the mobile telephone being pressed.

10. The mobile medication history management apparatus of Claim 1,  
5 being a mobile terminal that is equipped with a secure memory card.

11. The mobile medication history management apparatus of Claim 10,  
wherein the mobile terminal is a mobile telephone.

10 12. The mobile medication history management apparatus of Claim 10,  
wherein the memory card is detachably mounted in the mobile terminal.

13. A memory card that is used in an inserted state in a memory card slot of a mobile terminal, comprising:

15 an obtaining unit operable to obtain, from the mobile terminal, identification information relating to a drug that a user of the mobile terminal is planning to take;

a secure storage unit operable to store, in a secure storage area therein, medication history information of a drug that the user  
20 has taken previously;

an information storage unit operable to store mutual effect information showing one or more mutual effects, each mutual effect being caused by taking of drugs in combination;

25 a judgment unit operable to refer to the stored mutual effect information to check whether any combinations exist therein of the drug shown by the obtained identification information and any of the previously taken drugs estimated to have a remaining physical effect in the user, in order to judge whether a mutual effect will

occur due to taking the drug shown by the obtained identification information and any of the previously taken drugs; and

an output unit operable to output a judgment result to the mobile terminal.

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14. A management method executed in a mobile medication history management apparatus that comprises a secure storage unit that stores, in a secure storage area therein, medication history information of one or more drugs that a user of the medication history management apparatus has taken previously, and an information storage unit that stores information showing one or more mutual effects, each mutual effect being caused by taking drugs in combination, the management method comprising:

an obtaining step of obtaining identification information relating to a drug that the user is planning to take;

a reading step of reading the medication history information from the secure storage unit;

a judgment step of referring to the stored mutual effect information to check whether any combinations exist therein of the drug shown by the obtained identification information and any of the previously taken drugs estimated to have a remaining physical effect in the user, in order to judge whether a mutual effect will occur due to taking the drug shown by the obtained identification information and any of the previously taken drugs; and

25 an output step of outputting a judgment result.

15. The management method of Claim 14, further comprising:

a first download step of obtaining mutual effect information

from an external server, and storing the mutual effect information in the information storage unit,

the first download step being performed in a routine that is separate to a processing sequence that includes the obtaining step  
5 though to the output step.

16. The management method of Claim 15, further comprising:

a second download step of downloading medication history information from a server that is one of a hospital server and a  
10 pharmacy server, and updating contents of the secure storage unit with the downloaded medication history information,

the second download step being performed in a routine that is separate from the processing sequence.

15 17. The management method of Claim 16,

wherein the second download step includes:

an authentication sub-step of, when downloading, executing an authentication sequence with the server,

access to the secure storage unit being permitted only when  
20 authentication succeeds.